

Agricultural Marketing Service, USDA

§ 201.62

**PERCENT FOUND FLUORESCENCE TOLERANCE—
Continued**

51	6.9
50	6.9
49	6.9
48	6.9
47	6.9
46	6.9
45	6.9
44	6.9
43	6.9
42	6.9
41	6.9
40	6.9
39	6.8
38	6.8
37	6.8
36	6.8
35	6.7
34	6.7
33	6.7
32	6.6
31	6.6
30	6.5
29	6.5
28	6.4
27	6.4
26	6.3
25	6.2
24	6.2
23	6.1
22	6.0
21	5.9
20	5.8
19	5.7
18	5.6
17	5.5
16	5.4
15	5.3
14	5.2

**PERCENT FOUND FLUORESCENCE TOLERANCE—
Continued**

13	5.0
12	4.9
11	4.7
10	4.6
9	4.4
8	4.2
7	4.0
6	3.7
5	3.5
4	3.2
3	2.8
2	2.4
1	1.8
0	1.0

[32 FR 12781, Sept. 6, 1967, as amended at 59 FR 64516, Dec. 14, 1994]

§ 201.62 Tests for determination of percentages of kind, variety, type, hybrid, or offtype.

Tolerances for tests for determination of percentages of kind, variety, type, hybrid, or offtype shall be those set forth in the following table, added to one-half the required pure seed tolerances determined in accordance with § 201.60, except that one-half the pure seed tolerance will not be applied in determining tolerances for hybrids labeled on the basis of the percentage of pure seed which is hybrid.

TABLE 4—TOLERANCES FOR PURITY TESTS, WHEN RESULTS ARE BASED ON 10 TO 1,000 SEEDS, SEEDLINGS, OR PLANTS USED IN A TEST

Seed, seedling, or plant count percent	Number of seeds, seedlings, or plants in tests										
	10	20	30	50	75	100	150	200	400	800	1,000
100 or 0	0	0	0	0	0	0	0	0	0	0	0
98 or 2	10.3	7.3	6.0	4.6	3.8	3.3	2.7	2.3	1.6	1.2	1.0
96 or 4	14.4	10.2	8.3	6.4	5.3	4.6	3.7	3.2	2.3	1.7	1.5
94 or 6	17.5	12.4	10.1	7.8	6.4	5.5	4.5	3.9	2.9	2.1	1.9
92 or 8	20.0	14.1	11.5	8.9	7.3	6.3	5.2	4.5	3.4	2.4	2.2
90 or 10	22.1	15.7	12.8	9.9	8.1	7.0	5.7	4.9	3.8	2.8	2.4
88 or 12	24.0	17.0	13.8	10.7	8.7	7.6	6.2	5.4	4.1	3.0	2.7
86 or 14	25.7	18.1	14.7	11.4	9.3	8.1	6.6	5.7	4.5	3.2	2.9
84 or 16	26.9	19.0	15.5	12.1	9.8	8.5	7.0	6.0	4.8	3.4	3.0
82 or 18	28.2	20.0	16.4	12.6	10.3	8.9	7.3	6.3	5.0	3.6	3.2
80 or 20	29.5	20.9	16.9	13.2	10.7	9.3	7.6	6.6	5.3	3.8	3.3
78 or 22	30.5	21.6	17.6	13.6	11.0	9.6	7.9	6.8	5.5	3.9	3.5
76 or 24	31.4	22.3	18.2	14.1	11.5	9.9	8.1	7.0	5.7	4.1	3.6
74 or 26	32.3	22.8	18.6	14.4	11.8	10.2	8.3	7.2	5.8	4.2	3.7
72 or 28	33.0	23.4	19.0	14.8	12.1	10.5	8.5	7.4	6.0	4.3	3.8
70 or 30	33.7	23.8	19.5	15.1	12.3	10.7	8.7	7.5	6.2	4.4	3.9
68 or 32	34.3	24.3	19.9	15.4	12.5	10.8	8.9	7.7	6.3	4.5	4.0
66 or 34	35.0	24.7	20.2	15.7	12.7	11.0	9.0	7.8	6.4	4.6	4.0
64 or 36	35.4	25.0	20.5	15.8	12.9	11.2	9.1	7.9	6.5	4.6	4.1
62 or 38	35.5	25.4	20.6	15.9	13.0	11.3	9.2	8.0	6.6	4.7	4.2
60 or 40	36.1	25.7	20.9	16.1	13.2	11.4	9.3	8.1	6.7	4.8	4.2
58 or 42	36.2	25.7	21.0	16.2	13.3	11.5	9.4	8.1	6.8	4.8	4.2
56 or 44	36.5	25.8	21.0	16.4	13.3	11.5	9.4	8.2	6.8	4.8	4.3
54 or 46	36.8	25.8	21.2	16.4	13.4	11.6	9.5	8.2	6.9	4.9	4.3
52 or 48	36.8	25.9	21.2	16.5	13.4	11.6	9.5	8.2	6.9	4.9	4.3
50	36.8	25.9	21.3	16.5	13.4	11.6	9.5	8.2	6.9	4.9	4.3

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[32 FR 12781, Sept. 6, 1967, as amended at 33 FR 10841, July 31, 1968; 35 FR 6108, April 15, 1970; 59 FR 64516, Dec. 14, 1994]

§ 201.63 Germination.

The following tolerances are applicable to the percentage of germination and also to the sum of the germination plus the hard seed when 400 or more seeds are tested.

Mean (See § 201.59)	Tolerance
96 or over	5
90 or over but less than 96	6
80 or over but less than 90	7
70 or over but less than 80	8
60 or over but less than 70	9
Less than 60	10

When only 200 seeds of a component in a mixture are tested 2 percent shall be added to the above germination tolerances.

[15 FR 2399, Apr. 28, 1950, as amended at 20 FR 7940, Oct. 21, 1955]

§ 201.64 Pure live seed.

The tolerance for pure live seed shall be determined by applying the respective tolerances to the germination plus the hard seed and the pure seed.

[5 FR 35, Jan. 4, 1940. Redesignated at 20 FR 7940, Oct. 21, 1955]

§ 201.65 Noxious-weed seeds in interstate commerce.

Tolerances for rates of occurrence of noxious-weed seeds shall be recognized and shall be applied to the number of noxious-weed seeds found by analysis in the quantity of seed specified for noxious-weed seed determinations in § 201.46, except as provided in § 201.16(b). Rates per pound or ounce must be converted to the equivalent number of seeds found in § 201.46, Table 1, Minimum weight for noxious-weed seed examination (grams). Some tolerances are listed in the following table. The number found as represented by the label or test (Column X) will be considered within tolerance if not more than the corresponding numbers in Column Y are found by analysis in the administration of the Act. For numbers of seed greater than those in the table, a tolerance based on a degree of certainty of 5 percent ($P=0.05$) can be calculated by the formula, $Y=X+1.65\sqrt{X}+0.03$, where X is the number of seeds represented by the label or test and Y is the maximum number within tolerance.

Number represented by label or test	Maximum number within tolerances	Number represented by label or test	Maximum number within tolerances	Number represented by label or test	Maximum number within tolerances
(X)	(Y)	(X)	(Y)	(X)	(Y)
0	2	34	43	68	81
1	2	35	44	69	82
2	4	36	45	70	83
3	5	37	46	71	84
4	7	38	47	72	85
5	8	39	49	73	86
6	9	40	50	74	87
7	11	41	51	75	89
8	12	42	52	76	90
9	13	43	53	77	91
10	14	44	54	78	92
11	16	45	55	79	93
12	17	46	56	80	94
13	18	47	58	81	95
14	19	48	59	82	96
15	21	49	60	83	97
16	22	50	61	84	98
17	23	51	62	85	99
18	24	52	63	86	101
19	25	53	64	87	102
20	27	54	65	88	103
21	28	55	67	89	104
22	29	56	68	90	105
23	30	57	69	91	106
24	31	58	70	92	107
25	32	59	71	93	108
26	34	60	72	94	109
27	35	61	73	95	110